Approved For Release 2005/04/22 : CIA-RDP79B01709A001900060020-5 IRS -4372-67 25X1 25 September 1967 Copy & MEMORANDUM FOR THE RECORD NRO and USAF review(s) completed. SUBJECT: SR-71 1. The SR-71 reconnaissance aircraft is quite similar in appearance to the OXCART vehicle, but in addition to being a bigger and heavier bird than the OX, and carrying a two-man crew, it utilizes the 'multi-sensor' approach to imagery collection. (The OX uses a single camera installation.) The SR-71 carries three cameras 2. All cameras proposed for use in the SR-71 are conventional in design, insofar as this definition can be applied to modern reconnaissance. There are no strange or unusual formats, or photo resolutions beyond the capability of the Center to exploit. As a result we have not had to devise any unique programs or procedures to accommodate this material. The total camera film footage from a SR-71 mission will be just a little more than that received from the single-camera OX mission. This all indicates no insurmountable PI problems will be encountered in reading out the SR-71 photography. Doubtless, there will be some lost motion with the first few missions owing to lack of experience with this new system, but this would be typical of our experience in the early stages of previous systems... 25X1 **ILLEGIB ILLEGIB** Approved For Release 2005/04/22: CIA-RDP79B01709A001900060020-5

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- Poth the SR-71 and the OX carry similar, but not identical, inertial navigation systems (I.N.S.). NPIC utilizes taped records of this information, after correlation with the photography. This provides the geographic location of each photograph, vehicle attitude for each photograph, and a wealth of data useful for photogrammetric purposes. The OX I.N.S. data has been quite beneficial to the Center's exploitation process. The difference between the OX and SR-71 I.N.S. systems is significant in view of the data reduction processes involved, and we know very little about the nature of SR-71 I.N.S. data. This is an area in which the Center may be handicapped in working with SR-71 materials. I.N.S. data is of little real benefit during first phase (IPIR) exploitation because the basic task associated with finding SSMs is one of identification, not measurement. However, should the SR-71 replace the OX, the IPIR readout will become a field operation, with NPIC's task being second phase readout, in addition to back-up PI activity to protect the field operations. It is in the second and detailed phases of PI that the I.N.S. data will be necessary. MPIC has taken steps since April 1967 to try to resolve differences between the OX and SR-71 I.N.S. data systems.
- 5. It should be noted that the pressure to pursue this problem area has, until the last couple of months, been very slight. The SR-71 problem, though existant, was more of almost academic interest. Only since the OX deployment, followed by verbal statements (and more recent COMIREX discussions) about the replacement of the OX by the SR-71 did the SR-71 I.N.S. become a more serious problem. In the original SR-71 concept, this was to be a SAC operation. The SR-71 was conceived as a "typically SAC" systems approach to reconnaissance—they plan the mission, execute it, process and reproduce the film, and exploit it—the "womb to tomb" concept. This left very little for others to be concerned with, and the AF slight regard for other potential users' preparedness only confirmed that this was to be a typical SAC program. The usual implication for NPIC was that the Center would not be directly involved in SR-71 activities.
- 6. There has been a considerable amount of traffic between the Center and the SR-71 program, dating back to mid-1965. I personally have been to Beale AFB twice, as recently as August 1967, in company of NRO. Literally hundreds of personal, telephone and cable contacts have been made most of them deal with small details of the program how the data block is configured, etc. We have received their camera, manuals. These are sufficient for general program orientation, but for construction of math models and Center ADP programs usually not in enough detail. One shortcoming at present is the lack of detailed contact between

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	SUBJECT: SR-71			The April 2015 of the Control of the	
	our working people and the contractor. The biggest a Center "operational readin Center has not yet receive or simulated film and supp still in "category three" We have received various b to shake down the Center's	rea needing solution ess. test" - it has a d (nor been promise orting data. Beale testing and this ma its and pieces, but	n is that of con not been done be d) a full set of 's answer is tha terial cannot be not a complete	ducting a cause the operational t they are sent yet.	
	7. In summary, NPIC tion of SR-71 photography, pose a great problem beca task. We do need help in with some foot-dragging by man/years of Center comput now and 1 December 1967. a continuous effort to sta These efforts have mainly "Air Force tactical" tag o on the SR-71 program has b has only responded to the in anticipation of an anno subject, we have attempted the Center by contacting B one major area needing mor they were contacted as rec The answer came back that they are still testing the	without a major has use they really are, the I.N.S. area, and Beale AFB. This content is should be noted by abreast of development of a low-key not the program. All cen obtained through degree noted after funced 1 October 196 to prepare for any cale AFB again. We ently as week before we should defer a visual to the program of the lently as week before we should defer a visual transport to the lently as week before we should defer a visual transport to the lently as week before we should defer a visual transport to the lently as week before the lently as well as the lently as well as the lently as well as the lently as the lent	ng-up. The n't suited to the dare underway could require up l time to be expethat the Center pments in the SR ature, in keepin information hele our initiative repeated Center TEXCOM Meeting questions they were attempting I.N.S. data redue last, by telep	won't e specified n this, even to about two ended between has been making -71 program. g with the d by the Center. The Air Forcurging. Howeve on the OX/SR-71 may have for to resolve the ction process. hone and cable.	e r,
	8. It should be note essentially the same diffi of the product from the SR about the same as they are However, their capability severely limited. Even the only first phase at Beale type of work.	culties that NPIC wards and the currently on for anything other to Air Force, with it	ill in regard to e able to read o IPIRs for the B than first phase ts SAC approach,	ut the photogra lack Shield. work will be intended to do	phy
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